

I. CLAIM AMENDMENTS

Claims 4-38, 42 and 43 (Previously Canceled).

Cancel claim 44 without prejudice or disclaimer and amend claim 50 as indicated below.

The claims under examination now recite as follows.

1. (Previously Amended) An isolated nucleic acid molecule comprising a sequence that has at least about 90 % sequence identity to SEQ ID NO:1 or a complementary sequence thereof, wherein the nucleic acid encodes a polypeptide that binds a C terminus of GRIP1.
2. (Previously Presented) A recombinant vector comprising the nucleic acid molecule of Claim 1.
3. (Previously Presented) A genetically engineered cell comprising the recombinant vector of Claim 2.
39. (Previously Presented) The isolated nucleic acid molecule of claim 1, wherein said nucleic acid molecule encodes a polypeptide comprising SEQ ID NO:2.
40. (Previously Presented) A recombinant vector comprising the nucleic acid molecule of claim 39.
41. (Previously Presented) A genetically engineered cell comprising the recombinant vector of claim 40.
44. (Currently Canceled) ~~A genetically engineered cell comprising the recombinant vector of claim 43.~~
45. (Previously Presented) The isolated nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises a sequence that has at least about 95% sequence identity to SEQ ID NO:1.
46. (Previously Presented) A recombinant vector comprising the nucleic acid molecule of claim 45.
47. (Previously Presented) A genetically engineered cell comprising the recombinant

vector of claim 46.

48. (Previously Presented) The isolated nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises SEQ ID NO:1.

49. (Previously Amended) A recombinant vector comprising the nucleic acid molecule of claim 48.

50. (Currently Amended) A genetically engineered cell comprising the recombinant vector of claim 46 49.

51. (Previously Presented) The isolated nucleic acid molecule of claim 1, wherein the polypeptide comprises methyltransferase activity.

52. (Previously Presented) The isolated nucleic acid molecule of claim 1, wherein the polypeptide comprises coactivator activity.